UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

24498

7590

08/26/2010

Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312 EXAMINER

BADAWI, SHERIEF

ART UNIT PAPER NUMBER

2167

DATE MAILED: 08/26/2010

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
•	10/519.856	12/29/2004	David Aaron Crowther	PU020329	9304	

TITLE OF INVENTION: HETEROGENEOUS DISK STORAGE MANAGEMENT TECHIQUE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	11/26/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				N F p	on of maintenance fees will be mailed to the current correspondence address as correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
24498 7590 08/26/2010 Robert D. Shedd, Patent Operations THOMSON Licensing LLC P.O. Box 5312						Certi	ificate	of Mailing or Transı of Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the da	nission deposite class m above, c ate indica	ed with the United nail in an envelope or being facsimile ated below.
Princeton, NJ 08	3543-5312			[(Depositor's name)
										(Signature)
										(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENT	OR	R ATTORNEY DOCKET NO.			CONFI	RMATION NO.
10/519,856	12/29/2004			David Aaron Crowth				PU020329		9304
TITLE OF INVENTION										
APPLN. TYPE	SMALL ENTITY	ISSUE FEE D	UE	PUBLICATION FEE DU	Æ	PREV. PAID ISSUE FEE		TOTAL FEE(S) DUE		DATE DUE
nonprovisional	NO	\$1510		\$300	_	\$0		\$1810		11/26/2010
EXAM	IINER	ART UNIT	1	CLASS-SUBCLASS						
BADAWI, 1. Change of corresponde		2167		707-805000						
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED CORRESPONDED. The PRINTED CORRESPONDED.			tomer ED ON '	registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
Please check the appropr				(B) RESIDENCE: (CI	ITY _	and STATE OR CO		RY) on or other private gro	up entity	Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies				4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
5. Change in Entity Sta a. Applicant claim NOTE: The Issue Fee an	s SMALL ENTITY statu	ıs. See 37 CFR 1.		b. Applicant is no ld from anyone other tha						
interest as shown by the	records of the United Sta	tes Patent and Tra	ndemark	Office.		FF				p
Authorized Signature						Date				
Typed or printed name This collection of information is required by 37 CFR 1.311. The information										
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but 7irginia 22313-1450. DC	FR 1.311. The in U.S.C. 122 and 3 USPTO. Time v den, should be so D NOT SEND FE	formation of the following the following the following the following formatten for the following for t	on is required to obtain 1.14. This collection is depending upon the in e Chief Information Of COMPLETED FORMS	or re esti idivi ficei TO	etain a benefit by th mated to take 12 m dual case. Any con r, U.S. Patent and T D THIS ADDRESS.	e publ inutes nment `raden SENI	ic which is to file (and to complete, including s on the amount of tin lark Office, U.S. Depa D TO: Commissioner f	by the Ug gatherine you re rtment corrector	JSPTO to process) ing, preparing, and equire to complete of Commerce, P.O. ts, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/519,856	0/519,856 12/29/2004 David Aaron Crowther		PU020329	9304		
24498	7590 08/26/2010		EXAM	INER		
Robert D. Shed	d, Patent Operations	BADAWI, SHERIEF				
THOMSON Lice	nsing LLC		ART UNIT	PAPER NUMBER		
P.O. Box 5312 Princeton, NJ 08543-5312			2167 DATE MAILED: 08/26/201	0		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1250 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1250 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/519,856	CROWTHER ET AL.			
Notice of Allowability	Examiner	Art Unit			
	SHERIEF BADAWI	2167			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS			
1. \boxtimes This communication is responsive to <u>BPAI Decision 3/1/20</u>	110 and Applicant's amendment filed	<u>7/30/2010</u> .			
2. ☑ The allowed claim(s) is/are <u>1-3,5-9 and 11</u> .					
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No cuments have been received in this	national stage application from the			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.				
INFORMAL PATENT APPLICATION (PTO-152) which give					
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet of t	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin he header according to 37 CFR 1.121(Office action of ngs in the front (not the back) of d).			
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application			
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	6. Interview Summary (PTO-413),			
3. X Information Disclosure Statements (PTO/SB/08),	te ment/Comment				
Paper No./Mail Date See Continuation Sheet 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 8. ☑ Examiner's Statement of Reasons for Allowance					
(Shariof Padawi)	9. Other				
/Sherief Badawi/ Examiner, Art Unit 2167	/Neveen Abel-Jalil/ Supervisory Patent Exa	aminer, Art Unit 2165			

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 4/28/2008 and 6/25/2009.

Application/Control Number: 10/519,856 Page 2

Art Unit: 2167

DETAILED ACTION

1. This office action is in response to the amendment filed on July 30, 2010 which is in reply to BPAI decision mailed on 3/1/2010, claims 1-3, 5-9 and 11 are presented for further examination.

Allowable Subject Matter

2. Claims 1-3, 5-9 and 11 are allowable in light of the prior art made of record.

Reasons for Indicating Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Upon searching a variety of databases, and the board entering a new 112 second rejection that was clarified by applicants amendment filed on 7/30/2010, the examiner respectfully submits that "processing the user-selected menu option, said processing further including: determining if a requested execution of the at least one process complies with configuration rules for the identified at least one storage device, and if not, blocking execution of the at least one process, and generating an error message, the configuration rules determined in accordance with the information in the database" the pervious cited limitations of claim 1 in conjunction with all other limitations of the dependent and independent claims are not taught nor suggested by the prior art of record (PTO-892 and 1449). Therefore, all pending claims 1-3, 5-9 and 11 are hereby allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Application/Control Number: 10/519,856 Page 3

Art Unit: 2167

CONCLUSION

- 4. Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.
- 15. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199. The USPTO official fax number is 571-272-8300
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sherief Badawi whose telephone number is (571) 272-9782. The examiner can normally be reached on Monday through Friday 7:30-5:00, Alt Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on (571) 272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/519,856 Page 4

Art Unit: 2167

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like

assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sherief Badawi/ Examiner, Art Unit 2167

8-17-2010

/Neveen Abel-Jalil/

Supervisory Patent Examiner, Art Unit 2165